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Natural SHORT-HAND, Wherein

The nature of **SPEECH** and the manner of Pronunciation are briefly explained and a Natural **REASON** assigned from thence for the particular form of every Stroke. Every single Articulation whether Vowel or Consonant is marked by a distinct single Line.

All the simple Characters are as analogous to each other, as the Sounds they represent; Also their Convenience for Joining is commensurate to the Frequency of their use. The number of ascending and descending Lines are duly Proportioned to each other and the rules for writing and contracting are few, plain and familiar.

To which is Annexed.
A Short-hand Character for expressing Musical or Inarticulate Sounds without the use of ruled Lines;
By Holdsworth and Aldridge of the Bank of England.
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®

(Litho)
J. H. T. H. A. D.
1812

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Sir THOMAS SEWELL,

MASTER OF THE ROLLS,

AND ONE OF HIS MAJESTY'S

MOST HONORABLE PRIVY COUNCIL;

THIS TREATISE OF

NATURAL SHORT-HAND

IS RESPECTFULLY INSCRIBED,

BY HIS HONOR'S

MOST OBEDIENT

HUMBLE SERVANTS,

WILLIAM HOLDSWORTH,

AND

WILLIAM ALDRIDGE.

T H E
P R E F A C E.

MANY laudable attempts towards the perfecting the art of Shorthand have been made, by persons of no small genius, and yet the subject is very far from being exhausted. Our day seems to have had the honor of bringing many other arts to maturity; and we see no reason to despair but that this also may arrive at an equal degree of perfection. How far the present attempt may be conducive to this end, is humbly submitted to the judgment

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of

of the candid and impartial part of the public, for whom it is designed.

We can only say, that our chief aim has been to preserve the greatest brevity, with the utmost plainness and simplicity; and that the system here offered is not the result of fancy or conjecture, but of a long series of observation and experiment.

The design of this publication is not to depreciate the real merit of other systems of Short-hand, but to discover what is still wanting, and, to the utmost of our power, to supply every real defect. Or in other words, to bring this useful art nearer to perfection---to render its utility more extensive---to make the learning it more easy---and the practice more pleasant and familiar. If we have succeeded, we claim no other merit than that of having paid great attention to the subject.

NATURAL

P R E F A C E.

v

NATURAL SHORT-HAND is a title as singular and uncommon, as it is well suited to express the difference between this Short-hand and all others. Every character, in this method, has its foundation in nature ; and derives its particular form from the peculiar position of the organs of speech, or the passage of the breath, in the act of pronunciation. Every simple sound, whether vowel or consonant, is denoted by a simple character. Every character will join to any preceding or succeeding one, with the greatest facility ; and is convenient in proportion to the frequency of its use in the English language.

All the characters which are used in this system are contained in Plate V. and in order to understand and fix those characters in the memory, little more than the knowledge of the alphabet itself is required. As to the observations
upon

upon those plates, and the instructions in general, their design may be answered by once or twice reading them over.

The former part of this book, to Plate V. is mostly of a speculative nature: the design of which is to lead the learner into an acquaintance with the first principles of the art, by shewing him how those principles are conformable to nature and reason; and may therefore be properly considered as an Introduction to what follows, which is altogether practical. And indeed by carefully reading over this first part, in which all the simple sounds, and their corresponding characters, are presented in so many different views, much of the art itself will be obtained, before the learning of it in form is once attempted; and whatever knowledge is thus obtained, will also have the advantage of not being easily forgotten.

That

That the learner may not be at a loss how to write with exactness, or to read what is written with great readiness, a large specimen of the character is engraven. The two first plates of this specimen contain several portions of scripture, that are to be met with in many other books of Short-hand. These we have purposely chosen, that the learner may, if he pleases, for his own satisfaction, have the opportunity of making the comparison. As also, that if any difficulty should at first arise to the young practitioner, he may readily refer to the place in the Bible from whence it is taken.

Lastly, to exercise the abilities of the learner, and at the same time to engage his attention, the remainder of the specimen is inserted; containing an original attempt to explain and demonstrate the mechanical principles of natural philosophy,

losophy, in a manner entirely new, and heretofore unattempted. For this piece of philosophy we are indebted to a learned and ingenious gentleman, who has also given some other assistance in this work.

Upon the whole, we attempt to give a rational and universal view of Short-hand writing, from its elements, through the several combinations of lines or characters. The reader, when he sees the RATIONALE of our plan, and how it differs from all others, will be able to judge of its merit, and give the preference where he shall esteem it to be due.

E R R A T A.

Page 4, line 13, *for* progress, *read* process.

Page 18, line 2, *for* pronouce, *read* pronounce.

Page 44, line 8, *instead of* four liquids, *read* five liquids.

Page 63, line 18, *for* properties, *read* proportions.

N A T U R A L S H O R T - H A N D .

IN all languages, however different from each other, mankind have only two ways of conveying their ideas with clearness and facility ; these are by SPEECH and WRITING. By the former, we can with the greatest ease and expedition communicate to the mind and understanding of others whatsoever passes within our own : and tho' by the latter, we cannot accomplish this with so much readiness ; yet we make our ideas in some sense visible, preserve them for futurity, and can review them occasionally. In these
B respects

respects written discourses are much preferable to oral ones, which having admission to the memory by one of the senses only, are nearly as transitory as the sounds whereof they are composed. The principal advantage then which speech has over writing, is the communicating our notions with greater speed, and with less trouble. Now what we have chiefly in view, is to bring the art of writing as near to speech in these respects, as the nature of things will permit.

It is well known that the complex form of letters in all languages, has been found a great hindrance to swift writing. To remove this inconvenience, several contractions of words in each language have been adopted: besides which, several methods of short-hand writing have been invented. It is supposed by several, that something of this nature was practised in the early ages of the world: and that the Psalmist alludes to those whose practice it was to write with uncommon expedition, when he says, "My tongue is the pen of a ready writer." Whether this conjecture be well founded or not, is of no mighty importance. Yet if age be any recommendation,

commendation, it is clear that the Hebrews did use many contractions, and especially the Rabbinical and Cabbalistical writers. It was professedly on this account that the learned JOHN BUXTORF wrote a book, intitled, "De abbreviaturis hebraicis," as a key to these authors. We cannot from this infer the use of any character different from that which was commonly received; but that they used many contractions in words is very clear: and this practice they carried to great lengths. Sometimes a word was expressed, by joining together the initial and final letters only: at other times a whole sentence, by joining together the initial letters of each word in the sentence. It was from the last of these, that DR PRIDEAUX was inclined to believe the word MACCABEES had its origin, by putting together the initials of these words מִי כִמּוֹכָה בָּאֱלֹהִים יְהוָה
 "Who is like unto thee among the Gods,
 "O JEHOVAH?" This way of contracting words prevailed also among the Greeks; but, beside this, they had the art of writing by short marks or characters. It is reported by several, that XENOPHON, the historian and philosopher, was the founder of this art

among them. But whoever was the inventor, or by whatsoever means they became possessed of it; this is evident from their own writings, that in process of time they became famous in it; and of this the Lacedemonian scytal is a sufficient proof.

The Romans finding the advantages necessarily resulting from such a compendious method of writing, soon came into an imitation of the Greeks. Towards the close of AUGUSTUS's reign, those who wrote short-hand took the name of ACTUarii, because they digested all the public acts. In progress of time their number increased, and their profession became honourable and of greater extent. The account bishop WILKINS gives of the art as practised among them, will point out something of the nature of its construction at that time. In his real and universal character, he says, "Eleven hundred arbitrary marks for words were invented by the old poet ENNIUS, to which TULLIUS TYRO, CICERO's freedman, or as others say, CICERO himself, added many to signify the particles only." PHYLARGUS, the Samian, and MÆCENAS added yet more. After them,

ANNEUS

NATURAL SHORT-HAND.

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ANNEUS SENECA, by his own additions raised the number to five thousand: but this not being enough, short-hand writers in succeeding times increased the number to near three times as many. If this art had not then been found exceedingly useful, few or none would ever have been weak enough to attempt the learning of it. They were not acquainted with the method of writing by spelling of characters, and therefore were under an absolute necessity of substituting an arbitrary mark for each word; a circumstance which rendered its attainment no less difficult, than that of a new language.

The great deficiency which we have now hinted at, was in some measure supplied, when the method of writing by spelling of characters was first invented. For this discovery we are indebted to MR JOHN WILLIS, B. A. whose system was first published about the year 1600, and past a great many editions in a short time*.

Since

* His thirteenth edition of the ART of STENOGRAPHY, which we have now by us, was published in the year 1644, with an appendix, or as he calls it, a schoolmaster, annexed, which he also published in the year 1647, a little before his death.

Since this improvement, various attempts have been made by several persons to bring this useful art still nearer to perfection; but their labours have not yet been attended with much success. The fact is indisputable, and the reason is plain: they have all along paid a great regard to the principles of their predecessors; while nature and reason, which alone should have been carefully consulted, have been almost totally neglected. Had the latter been pursued with as much care and diligence as the former, it is more than probable, the world would not have been troubled with so many different methods, nor the art itself been brought into so much disrepute.

But there are two or three gentlemen, who cannot fairly be reckoned in this number. They have even gone so far as to reject all former principles that were not rational and demonstrable; while yet, either through want of time, or through inattention, they have handled the subject too superficially, and omitted several considerations of the utmost importance.

If we were to trace the history of SHORT-HAND WRITING, from the invention of the first

first short-hand alphabet down to the present time, it would appear, that the improvements herein made are not so considerable by far as they are commonly imagined. To evince the truth of this assertion, by examining separately the merits of every performance, would here be of no use: what is sufficient for our purpose on this head, has been already done by MR PHILIP GIBBS in his "Historical account of short-hand;" carried forwards by MR JOHN ANGELL, in his "Introduction to stenography;" and brought down to the present time by an anonymous author, in a pamphlet intitled "The alphabet of reason." By the remarks these authors have successively made; by a more close examination of the several methods on which they have remarked; and by formerly learning and practising several of them, that were most approved; it appeared to us, that a short-hand not founded upon fancy, but upon natural and rational principles, was much wanted.

We shall now shew what those principles are, and attempt thereupon to compose a method of short-hand writing capable of answering the end of its construction. The subject
itself

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itself is worthy our curiosity, and being no less advantageous than pleasant, we apply ourselves thereto with readiness and alacrity.

SHORT-HAND, or that which alone deserves the name, is the art of writing by substituting certain marks or characters as the symbols of speech: wherein, every SIMPLE SOUND should be expressed by a SIMPLE CHARACTER. The PARTICULAR FORM of every simple character should correspond with the NATURAL POSITION of the organs of speech, or the passage of the breath, in the act of pronunciation. The DISTINCTION between every simple sound should be marked by preserving a like DIFFERENCE among the characters. The CONVENIENCY of every simple character should be COMMENSURATE to the frequency of its use; and every character should be such as will JOIN with the greatest ease and readiness to any one preceding or succeeding, as may be required.

A very little reflection will soon convince us, that every part of the above description is absolutely necessary in the composition of a short-hand alphabet. Leave out but one of these properties, and it will be proportionably defective

defective in that clearness and brevity which the art requires. On the other hand, an alphabet thus constructed will have the following advantages, ---- the characters being all uncompounded may be easily expressed --- deriving the particularity of their form from the positions of the organs of speech, or the passage of the breath in the act of pronunciation, they may be easily attained, and kept in memory. ---- Being more or less convenient, according to the frequency of their occurrence, they may be written with the greatest expedition ; --- and being as different from each other as the sounds they represent, may be read again at any distance of time with the utmost facility.

An alphabet thus formed will have the less occasion for contractions ; yet some will be indispensibly necessary for the sake of ease, distinctness and expedition : but even here fancy must not be indulged : the contractions must be immediately deducible from the alphabet itself : their application must be natural and easy, so as to be acquired without much difficulty, and retained without burdening the memory.

Now in order to discover any analogy between lines and sounds in the several respects before mentioned, it will be necessary in the first place to enquire; how many simple sounds there really are in the English language. The next enquiry will be, how many sorts of single lines, or simple characters can be obtained. And then, how these two, the single lines and simple sounds, may be most naturally and conveniently adapted to each other. When we have pursued these enquiries as far as is necessary, we shall then go on to consider the double and treble consonants, the prepositions and terminations of long words, together with such of the particles as have their occurrence in speech the most frequent.

The first enquiry is, how many simple sounds are made use of in the English language.

As our main design is to adapt this method of short-hand writing to our mother tongue, an enquiry thus limited might be sufficient to answer the purpose; but it will not be altogether useless if we should carry our thoughts a little farther; for this method

thod is capable not only of being adapted to the English language, but perhaps to any other whatsoever, especially the learned languages.

In all articulate sounds the breath, as it comes forth, is actually stopped in its passage, either at the lips, at the teeth, or at the palate; or else is permitted to pass with some modification through the mouth or nose. The organs of speech then by which all sounds are produced, are, 1. the lips; 2. the teeth; 3. the tongue; 4. the palate, or throat. Those formed by the first are called LABIALS, by the second DENTALS, by the third LINGUALS, and by the fourth PALATINES or GUTTURALS; among which there are some wherein the breath is permitted to pass through the nose, in which case they are called NASALS. Now as we see it is possible enough to ascertain the number of organs, and what these organs are; it only remains to point out with equal certainty, how many and what changes they are capable of undergoing in the act of pronunciation; so as that each change may produce a sound really distinct from the rest. To pursue this enquiry,

c 2

which

which would deserve a treatise of itself, cannot be attempted within the limits of this essay. We shall therefore take a shorter step, and present the reader with a paradigm of all the simple sounds that are to be met with in the learned languages; and perhaps it will be very difficult to discover any other in any language whatsoever.

A Paradigm

of all the simple Sounds that are to be met with in the learned Languages. First in the Short-hand Character, next in the common English and Latin Character, then in the Greek & Hebrew, each in their order.

MUTES and SIBILANTS.						LIQUIDS.
	Hard	Aspirate Hard	Soft	Aspirate Soft		
Dentals.	t τ π	th θ ϑ	d δ γ	dh	α λ β υ ν ρ ζ. nasal ε ρ ξ γ	
Labials.	p π β	ph φ ϕ	b β γ	bhy γ	<i>Nasal</i> m μ ν	
Sibilants.	f ς ω	sh θ	z ζ γ	zh ζ		
Palatines.	k κ π	kh χ ρ	g γ γ	gh γ	<i>Nasal</i> ng γ	
Vowels.	1 ee ye	2 a π	3 a α	4 au o s	5 o o w	6 o oo γ
Long.	as in meet.	as in made.	as in ah, half.	as in fault.	as in hope.	as in Boot.
Short.	as in fit.	as in met.	as in fat.	as in fat.	as in but.	as in good.
Semi-vowels.	Dental (y η)	Aspirate h π <i>& the Greek Spiritus asper</i>			Labial w v	
Compound Sounds us'd in the English, Latin & Greek Alphabets. Note, the Hebrew (v) & the Greek (z) are put with the (x) for the sake of Conveniency but (ee) is their natural Sound.						
pf ↓	δ q	xx ε	·iz γ	oon θ	ou v	

This not being the place for considering the short-hand characters, we think it proper to inform the learner; that the reason of our inserting them here is partly to shew him their natural analogy, and comparative uniformity; but chiefly for the sake of refering to them hereafter.

In the above set of articulate sounds the letters of the English alphabet c, q and x, are omitted for the following reasons. C is an ambiguous letter, sometimes expressing the proper power of the letter k, as in CAN; and sometimes of the s, as in CERTAIN. Q is the same as kw; and the power of x is compounded of the two simple sounds k and s.

In the Greek alphabet we also omit the ξ and ψ; the first for the same reason as we omit the x in the English, having the same power; and the latter because it is a compound sound, made up of the two simple ones ϕ and σ. The compound sounds are noted at the bottom of the paradigm.

The powers of the Hebrew letters are all simple, on which account the Hebrew alphabet is the most regular. Yet it wants several more letters to express all the simple sounds;
unless

unless we suppose that two distinct sounds very nearly related, are in some cases expressed by the same letter.

From this plan it appears, that there are in all twenty four simple articulate sounds, and six vocal ones. If we were to consult the analogy of alphabets we might easily perceive the great deficiency of some, and the no less superfluity of others. For instance, the Syriac alphabet consists of twenty two characters only. The Arabic of twenty eight. The Coptic and Persian of thirty two. And the Ethiopic has still more. The Eastern languages have eighteen or nineteen consonants. The French fifteen. The Italians fourteen. And the Polish, or Scalvonian, have the same number of sounds as the English, except the aspirated *th*. The English, as before noted, have three consonants too many *c*, *q* and *x*, the first superfluous, and the two last compounded. They have likewise several simple sounds, which, though their use is retained in speech, yet are not marked with distinct characters. They seem only to be deficient in the power of the aspirate *h* though even this is retained among the Welch and Irish.

It

It may be noted in the foregoing scheme, that though the PH, SH, TH, CH, BH, ZH, DH and GH, are each of them marked by two letters, yet they are all simple sounds, being no other than the hard and soft mutes aspirated. Here observe, that the ZH or the SH soft, is as distant from the SH as the Z is from the S, or as B is from P, and bears the same relation thereto: for this sound we have no distinct mark in the English tongue, but the French expresses it by (J), and it is supposed by some that it is the original sound of the Hebrew (י), however the English sometimes pronounce this very sound, and expresses it by the S in such words as PLEASURE, MEASURE, TREASURE, &c. Likewise the DH, or the soft TH, is a simple sound, which has also in our language no distinct character. Those who learn the Hebrew with the points, pronounce the DALETH when it has no DAGESH in it by this soft TH. Though this articulation is not marked in our language, yet it is not unfrequently used; for sometimes TH is pronounced hard, as in THICK, DEATH, &c. and at other times soft, as in THESE, BREATHE, &c. and you may compare these two sounds together
in

in the two words THIN, THINE, where it is evidently hard in the former, and soft in the latter. These two sounds TH and DH, as well as the two former, SH and ZH, bear just the same relation to each other as the T does to the D, or the S to the Z, although, through the imperfection of our alphabet, little or no notice is taken thereof.

In this scheme it may also be observed, that the long I as in THINE, and the long U as in MUTE, are not inserted among the vowels. The reason is, they are each of them diphthongs. And we apprehend whoever carefully attends to the sound of these two letters will find, that the first is compounded of the fourth vowel short, and the first vowel long; and that the latter is composed of the first vowel short, and the last long.

If you want to know the real sound of any vowel, especially a short one, only protract the sound, and you immediately discover it. To instance in the word SKIPTON, draw out the sound of the two vowels, and you will easily perceive that the I has the sound of the first vowel, and the O has the sound of the fourth.

fourth vowel ; and in like manner you may judge of any other.

The distinction between a single vowel and a diphthong consists in this. The sound of a single vowel if drawn out ever so long continues the same from first to last ; and the organs continue in the same position. In a diphthong there is a motion of the organs, and the ending is a different sound from the beginning. A single vowel in the same breath admits but of one sound ; a diphthong in the same breath admits of two sounds distinct from each other. And it is remarkable that every real diphthong has in it the power of either the first or last vowel, or both, which are equivalent to the *y* or *w*.

It is well known, that the manner of founding or pronouncing the vowels in the several countries where the same language is spoken, is what chiefly constitutes the different dialects. It may therefore be both useful and necessary to produce a number of words wherein, first the long and then the short sound of each vowel is exemplified.

B

Long

	1 Vowel.	2 Vowel.	3 Vowel.	4 Vowel.	5 Vowel.	6 Vowel.
Long	be cheese deep fee grief leave me plea he heed	base case date fail great late may pain hail laid	calf father grant half laugh last mama papa past staff	bawl call dawn fall gaufe law malt Paul Saul tall	bone comb doe fort go lo more Noah pole sole	bloom cool doom fool goose loose moon pool room soon
Short	live rich fit sieve which	debt let head well when	am Ann as at that	cough God of sot what	but come doth love nut	book brook look root took

If upon perusing this table, the reader can pronounce every word in the same column with the same vowel, and those in different columns with different vowels without altering his common way of speaking, then it is evident that his pronunciation and ours are the same; but if not, they are somewhere materially different.

From the above table of words, the learner will easily perceive that the vowels as well as the diphthongs have no distinct mark to express them by; but are frequently changed one for another, e. g. A, has the sound of the second vowel, as in ALE; of the third, as in ARM; and of the fourth, as in ALL. E, has the sound of the first vowel, as in WE; and
of

of the second, short as in LEFT. I, has the sound of the first vowel both short and long, as in MAGAZINE; SIT; of the third vowel, as in SIRRAH; of the fifth short as in BIRD; and of a diphthong as in WISE. O, has the sound of the fourth vowel short, as in FOLLY; and of the fifth, as in GO; MONEY. U, has the sound of the fifth vowel short, as in MUST; and of a diphthong as in MUSIC. But besides their being so frequently changed one for another, they are also often redundant and have no sound at all, e. g. E after U, as in TRUE. A after O, as in ROAD. I before E, as in FRIEND; and after A, as in STAYD. U before I, as in GUIDE; BUILD, &c.

What we have now observed of the vowels is also true of the consonants, though in a much less degree. In the following instances several of them are changed from their proper powers; J, is expressed by G and DGE, as in GENTILE; KNOWLEDGE. PH has the sound of F as in PHARISEE. K, is characterized by CH, as in CHAOS; and the power of Z is denoted by S, as in THESE, BUSY, &c. In the following instances they are mute and have no sound at all. B before T, and after M, as

in DOUBT, DUMB. GH, in such words as THOUGHT, NIGHT, &c. K and G before N, as in KNEEL, GNAW. L before K, as in WALK, TALK. P before S, as in PSALM. W before R, as in WRITE; and D before G is nearly silent, as in GRUDGE. From these instances it evidently appears, that letters of the same tribe, or which are formed by the same instrument or organ, are mutually interchanged one for another; and this liberty is taken in most languages*.

Thus according to our first design, we have as we apprehend settled what number of simple sounds there really are; so far at least

as

* In words derived from other languages, the transposing of letters in the same class is very evident. To examine a few. The word MASS or DOUGH is in Latin MASSA, in Greek *μαζα*; and in Hebrew מצה is unleavened bread—DOOR English, THOR German, *θυρα* Greek, תרע Hebrew—GRUNT English, GRUNNIO Latin, *γεγυλιζω* Greek—COELUM Latin, שמים Hebrew—a BEAN English, *πυαμος* or *πυανος* Greek—EARTH English, TERRA Latin, *εξα* Greek, ארץ Hebrew, ארע Caldaic, from hence comes the Greek word *αρο* and the English word HARROW—Were this reciprocation of the cognate letters duly observed, it would be a clue to trace out the derivation of many words, whose origin must otherwise remain in obscurity.

as will be sufficient for the present purpose. It was necessary that this should be first known, before it could be determined what number of simple characters would be wanted. We shall therefore go on to see how many single lines or simple characters can be obtained, and for this purpose the following plate is inserted.

NATURAL SHORT HAND.

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It is well known that this should be first
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We shall therefore go on to see how many
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tained, and for this purpose the following
plan is adopted.

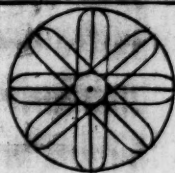
1
2
3

4

Page
recho
11

The Elements of Short-hand

IN GENERAL IN PARTICULAR



¹ st A DOT.....	
² ^d A LINE <i>in four directions</i>	— \ /
³ ^d A CIRCLE <i>divided by a Horizontal & Perpendicular diameter</i>	  
<i>Semicircumferences</i>	() U n
<i>Segments</i>	() U n
⁴ th AN ELLIPSIS <i>in four directions</i>	 
¹ st Horizontal.....	
<i>Semicircumferences</i>	() U n
<i>Segments</i>	() U n
² ^d Perpendicular.....	 
<i>Semicircumferences</i>	() U n
<i>Segments</i>	() U n
³ ^d At 45° to the Right.....	 
<i>Semicircumferences</i>	() U n
<i>Segments</i>	() U n
⁴ th At 45° to the left.....	 
<i>Semicircumferences</i>	() U n
<i>Segments</i>	() U n

Together they produce the follow^g lett; out of which the most simple & convenient

are chosen for the Alphabet o o l l . — | \ / U n U n U n U n

U n U n U n U n U n U n U n U n U n U n U n U n U n U n U n U n

[The text in this block is extremely faint and illegible, appearing as bleed-through from the reverse side of the page. It is enclosed within a rectangular border.]

This plate, entitled Elements of Short-Hand, may in a great measure supply the place of a teacher, as it shews the true formation of the simple characters and from whence they are derived.

The general figure which first presents itself includes in it all those particular ones that follow, and out of which are formed all the simple characters that can possibly be made.

The first and most simple expression of the pen is a POINT or dot. But though this mark in its own nature is more simple than any other, yet as it is not capable of being joined with ease and distinction to a line, in any direction whatsoever; its uses on this account must be greatly contracted. It can only be distinguished by place, magnitude or number.

The next is a STRAIGHT LINE, which can be varied four ways. By DIRECTION, POSITION, THICKNESS and LENGTH; and when inclined to the right will admit of a character to be joined either at the top or bottom.

With respect to the first of these, it is plain that a straight line can be drawn in
every

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every direction from the center of a circle to its circumference ; while no more can be admitted as useful in short-hand writing, but such as can be preserved clear and distinct from each other. Accordingly the HORIZONTAL, the PERPENDICULAR, and the two INCLINED LINES, the one at an angle of forty five degrees to the right and the other at forty five degrees to the left, or thereabouts, have always been found most convenient. These we have chosen as the most easy, and best adapted to general practice.

Again, each of these characters can stand in a threefold position. IN, ABOVE, and UNDERNEATH the line of writing. But the two last, when much used, are enemies to beauty and uniformity, nor have they any advantages sufficient to counterbalance this ; we have therefore made but little use of either, and only in such instances where they are most natural and easy.

Characters can also be distinguished by thickness or breadth ; but this distinction is inconsistent with freedom, distinctness and expedition, and therefore we have not ventured to make any use of it at all.

The

The different length or size of the same character is another manner of variation; and which if not used with great caution, will be frequently in danger of being mistaken. This distinction we have never applied, but where the sounds are near to each other.

But besides these four ways of varying a line when it stands alone or disjoined, there are also several other methods whereby it can be distinguished when in composition, or joined with others. Such as the joining one stroke full against the end of another---the drawing one line from the middle of another---or the making of one line to cross another.

What follows the straight line is a circle, which we have divided by the horizontal and perpendicular diameters; the semicircumferences thence arising being not only better contrived for joining, but also more plain, easy and natural than those arising from the inclined diameters. We make no use of the segments of the circle, because when written in haste they are not sufficiently distinct from the semicircumferences on the one hand, or

the straight lines on the other. Though this alone would be a sufficient reason for denying them a place in this short-hand, yet there is another reason no less important. If these be once admitted, then all that stock of simple characters so amply supplied by the ellipsis in its four-fold direction, must immediately be rejected: most of which are not only more plain and distinct, but also much better calculated for joining with others; nor like the former are they in any wise liable to be mistaken, though they be written with the utmost expedition †.

The ellipsis being capable of standing in as many directions as the straight line, is therefore

† The segments of the ellipsis may be accounted simple characters, because they can each of them be made with one single dash of the pen; and when well applied, can be written with as much ease and expedition as the semicircles themselves. The only plausible objection that can be made against them is, that a few of them are not so well adapted for joining with some preceeding or succeeding characters. But this objection does not so much lie against their degree of simplicity as the peculiarity of their form: nor will even this be any objection, if they are properly applied; as there are none of them but what will with great readiness join either to the preceeding or succeeding character; and several of them to both.

fore subject to the like remarks. The four directions wherein this figure stands, will furnish a great number of useful characters; many of which, can be joined with the greatest readiness to any line whether preceeding or succeeding. Those that will not join with ease, or approach too near the form of compound characters, are for the sake of clearness and conveniency, totally rejected.

Lastly, the result of the whole is, that a great number of simple characters, clear and distinct from each other, are hereby produced. That this end could not have been obtained by any other method, may easily be conceived by a little reflection: it is from this source, that all the characters which are used in this method are derived; whilst those which are most simple and convenient, are chosen for the alphabet; or rather to express those simple sounds, which are the elementary principles of all languages.

Having now obtained a good stock of simple characters, we shall go on to shew how they may be most naturally and conveniently applied to sounds.

We had before occasion to observe, that every articulate sound is produced by the breath, proceeding from the lungs; which as it comes forth, is either actually stopped in its passage at the lips, the teeth or palate; or else is permitted to pass with some modification through the mouth or nose.

Now the letters by which these articulations are characterized, have been generally divided into MUTES, which have no audible sound without some vowel: SIBILANTS, which have in themselves an hissing or buzzing sound: LIQUIDS, which have a certain obscure sound of themselves: VOWELS, which have clear distinct sounds: SEMIVOWELS or SEMI-CONSONANTS, which though vowels in their nature, yet in their use partake of the nature of consonants. And the whole have been comprized, under the two general names of CONSONANTS and VOWELS.

Upon a careful survey of the nature and manner of pronunciation, we find every articulation is either, 1. a DENTAL; 2. LABIAL; 3. SIBILANT; 4. PALATINE; 5. LIQUID; 6. a VOWEL; or 7. a SEMIVOWEL. We shall treat briefly of these seven classes in
order,

order, and as we proceed shall specify the characters which nature leads us to appropriate to each articulation ; by observing the position of the organs of speech, with the passage of the breath in the act of pronunciation ; which may certainly be imitated and deciphered by lines, although the sounds themselves cannot be. To effect this, we all along consider the face as drawn in profile looking to the right.

*The Position of the Organs of Speech & the Passage
of the Breath in the Several Acts of Pronunciation
delineated.*

*In the following Diagrams, we express the Lips by a
Figure somewhat like to a Circumflex in a perpendicular Direction;
the Palate by the upper curve Line; the under Jaw by the lower;
the upper surface of the Tongue by the middle Line; & the passage
of the Breath by Dots: we likewise distinguish those Parts
from whence we take the Characters, by a small hair Line.*

*The Position of the Lips in pronouncing the
Mute Labials. — Liquid Labial:*

p, f, b, v.

m.

*The Position of the Tongue in pronouncing the
Mute Dentals — Liquid Dentals*

t, th, d, dh, n, l, c, r.

Mute Palatines — Liquid Palatine.

k, kh or ch, g, gh or j, ng.

*The Position of the Tongue with the Passage
of the Breath in pronouncing the*

Sibilants. — Semi-vowels. — Vowels.

f, fh, z, zh, h, y, e, ea.

*The circular Opening of the Mouth & Lips in pronouncing
au, o, oo and w, is easier conceived than decyphered.*

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side.]

SECRET

1871

1871

1900

Ist, The **DENTALS** are such mute articulations as are made at, and against the **TEETH**. These have been generally, though not so properly, called **LINGUALS**; because their formation, as does that of most others, depends partly upon the position and motion of the tongue. The mute dentals are these four, **T, TH, D, DH**.

T, the **HARD** dental, is pronounced by raising the forepart of the tongue and placing it hard against the root of the upper teeth, so as to stop the breath in its attempt to pass out. By these means, the upper part of the tongue forms a line leaning forward, descending from right to left; which is its proper character.

TH, its **ASPIRATE**, as it is pronounced in the words **THIN, HATH, &c.** though it is marked by no single letter in our alphabet; yet is as properly a single articulation as the former. In pronouncing it we raise the tongue in the same manner as in the **T**, yet not so hard as to stop the breath, but permitting it to pass with some difficulty: its proper natural mark therefore is that for the **T** lengthened.

D,

D, the SOFT dental, is pronounced in the same manner as the T, only the tongue not being placed quite so hard against the root of the upper teeth, the breath in attempting to pass comes against the back part of the tongue and drives it into a curve with its convexity forwards; so that the upper right-hand segment of an ellipse leaning forward is the most exact and natural mark for it.

DH, its ASPIRATE, is a distinct single articulation, which we have no distinct mark for; its power is that of the soft TH, as in THINE, BREATHE, &c. and being properly the aspirate of the D, should have the same mark with it, only somewhat longer.

IId, The LABIALS intend such articulations as are formed by the lips. In pronouncing them, the lips shut PERPENDICULARLY on each other; which directs us to perpendicular strokes, either with, or without a curvature, as the fittest characters for them. The mute labials, which bear exactly the same analogy to each other, as the dentals do, are four in number, P, PH OR F, B, BH OR V.

P,

P, the HARD labial, is produced by shutting the lips close and hard together in a perpendicular direction; while the breath attempts to come forth, but is for the instant completely stopped. The simple perpendicular line is the natural expression for it.

PH, or F, is its ASPIRATE: the breath being forced forwards through the closed lips with some difficulty. Its character therefore most regularly according to analogy is the P, or perpendicular stroke lengthened, which we accordingly use after an ascending line; but as this mark is inconvenient in other cases, and tends to destroy the linear form of the writing; instead thereof, we distinguish it from P, by a small curvature beginning backward, forming the upper right-hand segment of a perpendicular ellipsis.

B, the SOFT labial, is pronounced in the same manner as the P, only the lips are not shut so close and hard together. Its most convenient character, distinguishing it from P and F, is a small curvature at the top of the perpendicular stroke, making the upper left-hand segment of the perpendicular ellipsis.

F

BH,

BH, v, or u consonant, is its **ASPIRATE**, being the same with the power of B, only the lips are forced open, and the breath passes through with freedom. The character for the B inverted, is its suitable mark, being the lower right-hand segment of the same perpendicular ellipsis.

IIIId. The **SIBILANTS**, though we have assigned them a place among the mutes, yet they are not absolutely such, because, in pronouncing them, the breath passes between the tongue and the root of the upper teeth, making a kind of hissing or buzzing sound. They have been generally, though not so properly, called dentals. These bear much the same relation to each other, as the two former classes, and are four in number, s, SH; z, ZH.

S, the **HARD** sibilant, is expressed by raising the tip of the tongue, and placing it against the root of the upper teeth; but yet so as to permit the breath to pass on in an **HORIZONTAL** direction; which leads us to mark it by a short horizontal line.

SH, its **ASPIRATE**, is a distinct single articulation, as really as the other aspirates; though

though in English we have no single letter for it. Its natural character, according to analogy, is the former lengthened.

Z is the **SOFT** sibilant; for in expressing it, the tongue is not placed so close against the teeth, as in pronouncing the power of s: it is therefore properly characterized by the mark for s beginning with a small descending curvature, making the lower left-hand segment of an horizontal ellipsis.

ZH, or the **SH** softened, is its **ASPIRATE**. It is a simple articulation, bearing the same relation to SH, as z to s, or as B to P. There is no distinct mark for it in the English alphabet, but the French characterize it by j, and it is supposed to be the original sound of the Hebrew **ז**. In English we sometimes pronounce this very sound, writing it by an s, in such words as PLEASURE, MEASURE, TREASURE, &c. Its short-hand mark according to analogy is the z lengthened.

IVth. The **PALATINES** or gutturals are formed by placing the back part of the tongue against the back part of the palate near the throat; whereby the fore part of the

36 NATURAL SHORT-HAND.

tongue falls down forward in an OBLIQUE DESCENDING LINE.

The mute palatines have much the same analogy to each other as the three former classes, and are four in number, K, KH; G, GH.

K, the HARD palatine, is pronounced by raising the back-part of the tongue against the palate of the mouth, while the fore-part falls down forward in an oblique line, descending from left to right; which is the mark we have chosen for it.

KH, is its ASPIRATE. Here the tongue is placed as in the K, only in pronouncing it the breath is forced through with some difficulty. Its proper mark then is that of the K lengthened. This articulation is difficult to an Englishman; but is very familiar to the Welch; and is supposed to be the true original power of χ in Greek, and כ in Hebrew.

G, as in GOOD, GET, (not as in GENDER, &c.) is the SOFT palatine; for it is pronounced in the same manner as the K, only the back part of the tongue is not placed so sharp and hard against the palate. Therefore

fore its proper mark is the κ , with a small curvature forward at the top, making the upper right-hand segment of an ellipsis, descending obliquely from left to right.

GH, its **ASPIRATE**, is pronounced in the same way, only the breath is permitted to pass forward at the top with some difficulty; its proper mark, therefore, is that of the κ , with a small curvature at the top, the contrary way to that of κ , making the upper left-hand segment of the same ellipsis. This articulation is difficult to us; but there is reason to think it to be the original power of the Hebrew η , and perhaps of the English GH, in such words as **THROUGH**, **RIGHT**, &c.

The English, in order to avoid these two difficult aspirations, have transferred them from the back to the fore-part of the tongue, which makes them more properly sibilants, though they in part retain such marks for them in the alphabet, as if they were palatines: for instead of KH, they use CH, and pronounce it as in **CHARITY**, &c. which is the complex power of TSH: and for GH they use DGE, as in **GRUDGE**; the soft G, as in **GENDER**; or the J consonant, as in **JUST**:
pronouncing

pronouncing it as the complex power of DZH, or the soft TSH. In the application of these marks to the English language, we have complied with this change of sounds, and use the KH for the power of CH, and the GH for the power of the soft G, or J consonant.

These are the mutes and fibilants; and it is remarkable, that these four distinct kinds or classes of articulations, do in nature bear such a beautiful analogy one to another; each class having the HARD sound and its aspirate, with the SOFT and its aspirate; which analogy we have strictly preserved throughout, in the characters appropriated to each articulation.

Vth. The LIQUIDS, even when without any vowels, have a certain audible but obscure sound in themselves. They are in number four; L, M, N, and R.

L is a DENTAL, wherein the tongue is placed softly against the upper part of the mouth, and the breath passes gently by, on either side of the tongue; so that the upper surface of the tongue is cast into the form of a semicircle with its convexity downward;
the

the mark which we have chosen for it. The Welch have a peculiar way of aspirating this liquid, by placing the tongue hard against the root of the upper teeth, and forcing the breath strongly through on either side of the tongue. They express it in writing by a double L, and may justly be marked in short-hand by the former character enlarged.

M is properly a LABIAL; for in pronouncing it, we shut the lips together, as in P or B, and stop the breath, in its attempt to pass forward, only we here let the breath pass backward freely through the nose, so that M is a labial NASAL. For this reason, it is most naturally marked by the semicircle, with its convexity forward, imitating the position of the lips; and this makes its concavity backward, a proper expression of the free open passage for the return of the breath.

N is a DENTAL; for in pronouncing it we place the tip of the tongue against the root of the upper teeth; but it is a NASAL too, since the breath, stopped by the tongue, is permitted to pass upward through the nose. The upper surface of the tongue, now
very

very nearly resembles the semicircle, with its convexity upwards ; and this is its natural character.

It may be proper to annex, in this place, that NG, as pronounced in SING, WRONG, &c. is a simple articulation, and is a LIQUID ; for when it is expressed without a vowel it has a sound, though somewhat obscure, like the letter N : but it is also a NASAL PALATINE, the power of it being produced by placing the tongue, as in pronouncing the G, and permitting the breath to pass at the same time backward through the nose. Its most proper character, therefore, is the N turned back in the direction of the letter K, or of a palatine letter ; for such is the curve that is made on the back part of the tongue in pronouncing it : viz. a semicircle with its convexity descending forward from left to right.

R is a DENTAL of a peculiar kind ; for in pronouncing it, we turn up the tip of the tongue so tenderly against the root of the upper teeth, that as the breath passes, it makes a sort of a quiver or vibration. Here the very tip of the tongue is cast into the
form

form of the quarter of a circle ascending perpendicularly, and terminating horizontally towards the right. This in writing may be well expressed by a line answerable to the position of the tongue turning upon any preceeding one that descends. But if together with this we take in the passage of the breath, we have a semicircle with its convexity backward. This then is its proper complete character; but the former, which is descriptive of the position of the tongue only, may be best used after a descending line.

Vith. The VOWELS are, according to nature, distinctly six in number. In the three first, the tip of the tongue ascends more or less towards the root of the upper teeth, without quite touching it; which suggests that they ought to be marked by lines ASCENDING from LEFT to RIGHT. Accordingly we have chosen, as most natural and convenient, the ascending line short for the first vowel; the same lengthened for the second; and the third the same as the second, only leaning a little more forward. These two latter are so near to each other in pronunciation, and are

noting

G

fo

so seldom kept distinct in writing, that a greater distinction in short-hand is unnecessary.

In pronouncing the other three vowels, the mouth and lips are opened in a CIRCULAR OR ELLIPTICAL form, which indicates that these should be marked by a circle or oval. Accordingly we have chosen for the fourth vowel a small circle; for the fifth a larger one; and for the sixth an ellipsis or oval.

VIIth. The SEMIVOWELS, which may also be deemed semiconsonants, are such articulations, as in their use partake of the nature of consonants, though they have originally the nature of vowels; and they are these three, *h*, *y* and *w*.

H, is nothing but a strong sensible aspiration; and therefore in characterizing it, we can properly take notice of nothing but the passage of the breath; which as it comes upward out of the throat, and proceeds forward horizontally through the mouth, directs us to mark it by the upper left-hand segment of an horizontal ellipsis. N. B. The *h* should never be written, when it expresses the aspiration

piration of a consonant; this being fully provided for, in what we call the aspirated letters. Neither need it be written at all before a vowel, except when the aspiration is very strong and sensible, and this occurs but seldom.

Y, is pronounced by raising the tongue almost perpendicularly, and placing it very high to, yet not actually touching, the root of the upper teeth; and is nearly of the same nature with the first vowel. So that its most natural character, is the lower left-hand segment of an ellipsis, leaning forward, and begun at the bottom. N. B. The writing of this character is never necessary but at the beginning of a word.

W, is no other than the last vowel used as a consonant, and so requires no other mark. N. B. This character, as well as the y, is never required to be used but at the beginning of a word; and then it has the next letter joined from the top, to distinguish it from the vowel.

These are all the distinct single articulations we can discover, in all the languages known to us; and the characters appropri-

ated to them, comprehend ALL the simple marks we can find, that may be written and combined with convenience.

Upon a review of the whole, it appears, that nature leads us to divide the several articulations of speech into seven classes; four DENTALS; four LABIALS; four SIBILANTS; four PALATINES; four LIQUIDS; six VOWELS and three SEMIVOWELS; thirty in all: and that nature has furnished us with simple characters just sufficient to mark them by, in a most natural, expressive and analogous manner.

The four lines descending from right to left, express the position of the tongue in the DENTALS.

The four perpendicular lines, characterize the position of the lips in the LABIALS.

The four horizontal lines, answer to the passage of the breath in the SIBILANTS.

The five lines descending from left to right, correspond to the position of the tongue in the PALATINES.

The four semicircles, decipher the position of the lips or tongue, in pronouncing the LIQUIDS.

The

The three lines ascending from left to right, describe the position of the tongue in pronouncing the THREE FIRST VOWELS. The two circular marks, express the openness of the mouth in the FOURTH and FIFTH; while the oval, exactly answers to the open position of the lips in the SIXTH VOWEL. And the characters for the three SEMIVOWELS, are evidently as natural and as expressive as all the rest.

The next thing to be considered and examined is, whether the characters as above applied are CONVENIENT for use, in due PROPORTION to the FREQUENCY of their OCCURRENCE in the English language.

The first thing necessary here, is to ascertain the comparative frequency of every letter in common writing; and then to mention those allowances, which must be made to accommodate it to the orthography of short-hand. In the following plate, the former of these is done by taking the proportions from a letter-founder's bill. We might indeed have taken another method, viz. by selecting ten or twelve pages out of some book, where the subject is general, numbering

numbering the letters of each sort, and observing their comparative frequency. But the former method is much more preferable, upon several accounts; especially since it must be supposed that the proportions in the letter-founder's bill are stated, as the result of many trials and long experience.

To accommodate the founder's bill to our present purpose, we have collected the separate proportions of the small, the capital and compound letters into one sum for each letter. Double letters, such as (ff) and (ff), are always written single in short-hand; we therefore in this case reduce the proportions of the letter-founder's bill by considering them as single; and are, for the same reason, obliged further to lessen the proportion of s, on account of the very frequent terminations (ness) and (less) in both which the s is double but is not mentioned in the founder's bill, the one being the long and the other the short s, for all which we subtract one fifth part of the proportion of that letter.---As in short-hand many of the vowels do not appear, we have taken only two thirds of each into the calculation of their proportions in the

the short-hand orthography.---And as we have used each of the large semicircles to signify a liquid with a *d* succeeding it, we have also abated one third part of the proportion of the letter *d*.---The *c* has no distinct power of its own, but falls into the power of *k* or *s*, and is therefore left out of the short-hand alphabet, and one half of its proportion is added to that of *k*; and the other half to that of *s*. And we must lessen the proportion of *n* and *g* by one thousand each, because of the very frequent occurrence of *ng* as a nasal palatine. This is all the allowance we think necessary to make among the vowels and consonants, except it be that the use we make of *p* in short-hand, in expressing the particles *A*, *AN*, *OF* and *THE*, does more than treble its frequency; consequently the use of *r* and *f* being taken away, in writing the words *THE* and *OF*, two thousand must be subtracted from the proportion of the former; and an abatement of about one half must be made for the latter.

This being premised, in order to apply the whole to our present design, we think it proper to put together each class of kindred letters

letters in one general proportion; because the power of one letter is frequently exchanged for that of another of the same organ, viz. T, D; S, Z; F, V; G, J; &c. which would be a source of much confusion and uncertainty, were not the letters thus placed in their distinct classes.

In the
Ortho

a.....
b.....
c.....
d.....
e.....
f.....
g.....
h.....
i.....
j.....
k.....
l.....
m.....
n.....
o.....
p.....
q.....
r.....
s.....
t.....
u.....
v.....
w.....
x.....
y.....
z.....

Acron
Diacron
Dysp
Beg

IV

The Proportions of Letters

In the Long-hand Orthography.	In the Short-hand Orthography.	
a.....7910	$\frac{2}{3}e \& y$	= 10233
b.....2200	$\frac{2}{3}p$	= 5333
c.....3400	$\frac{2}{3}a$	= 5273
d.....4600	$\frac{2}{3}o$	= 4760
e.....13050	$\frac{2}{3}u$	= 2267
f.....5000	$\frac{2}{3}w$	= 1400
g.....2100	t, th.....	2000 = 7600
h.....7300	$\frac{2}{3}d, dh$	= 3066
i.....8000	n.....	1000 = 6000
j.....800	r.....	= 5500
k.....1300	l.....	= 4550
l.....4550	$3p + \frac{1}{2}f$	= 9100
m.....3650	b + v.....	= 3750
n.....7000	m.....	= 3650
o.....7140	s, sh, & c + sh 800.....	= 10500
p.....2200	z, zh.....	= 350
q.....700	k, ch + & c.....	= 3000
r.....5500	g.....	1000 + f + 1000 g = 2900
s.....10,000	'10h.....	= 730
t.....9600	'5 y.....	= 460
u.....3400	'5 w.....	= 420
v.....1550		
w.....2100	q.....	700
x.....600	x.....	600
y.....2300		
z.....350		

ascending lines e, y, i, a, h, y, w, x & $\frac{2}{3}r$ = 26716 } B, p, is here taken
 Descending lines t, d, p, f, h, v, m, k, g, j, and $\frac{1}{3}r$ = 29499 } single not triple.
 Difference allowed for raising the line at the Beginning of a Word..... = 2783

1940

11

7. 11. 1941

1871

1910

1891

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1944

1881

11

11

16

1875

1871

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

1974

1888

100

1. The first part of the document is a list of names and their corresponding dates. The names are listed in a column on the left, and the dates are listed in a column on the right. The names are: John Doe, Jane Smith, and Bob Johnson. The dates are: 1/1/1990, 2/1/1990, and 3/1/1990.

11. 11. 1944

The first column in this plate contains the proportional use of each letter, as taken out of the letter-founder's bill.---The next column states the proportions with the necessary allowances, placing each letter in its proper class. First, VOWELS; secondly, CONSONANTS, including four classes, viz. dentals, labials, sibilants and palatines; thirdly, SEMICONSONANTS; fourthly, COMPOUND LETTERS. The order in which they are put is also answerable to the frequency of their occurrence. And over against them, in the next column, is seen the short-hand marks for each letter.

With respect to the VOWELS, we need say nothing in favour of the characters we have chosen to express them by; since every one can see that the line ascending forward is by far the most easy for joining, and the circle or ellipsis, being capable of being turned every way, must be exceedingly convenient.

With regard to the CONSONANTS, the reader is desired to remember, that if we place the simple straight lines in the order of their convenience, they stand thus; 1st, the oblique line descending to the left; 2d, the perpendicular; 3d, the horizontal;

H

and

and 4th, the oblique descending to the right ; and if the semicircles are placed in the same way they stand in this order ; with the convexity, 1st, downwards ; 2d, backward ; 3d, upward, and 4th, forward.

As to the SEMICONSONANTS, H, Y and W, for the most part, they can have no distinct mark in the middle or at the end of words. H, being an aspiration annexed to a consonant, is fully provided for under the aspirated letters. Y, has in the middle of words the power of the VOWELS E or I ; and W after A, E and O, forms the fourth vowel AU, or the two diphthongs U and OU ; and both are characterized accordingly. It is therefore sufficient if we allow for their proportional use, the tenth part of H, and the fifth of Y and W.

There is likewise another great advantage attending the construction of this alphabet. It may be easily demonstrated that it preserves the writing lineal ; for, if setting aside the characters O, U, N, L, S, Q and Z, as producing no ascent or descent ; we take the proportions for the letters E, Y, I, A, H, Y, W, X, and two thirds of R, as ascending
lines ;

lines; and set these against the marks for the rest, T, D, P, F, B, V, M, K, G, J, and one third of R, as descending ones; we shall find that the former is a sufficient equipoise to the latter; allowing for the raising of the pen at the beginning of each word.

Thus it appears upon inspection, that the sum total of the several proportions in each class, is more or less, in the same ratio, as the characters are easy to be expressed, or convenient for joining with others.---That, in each class, a beautiful analogy is maintained among the characters.---That the ascending and descending lines, occurring with equal frequency, must preserve the writing lineal.---That many of the characters being of a curvilinear form, will render it the more beautiful. Besides all these advantages, we may also add, that since the vowels as well as the consonants are marked by lines, there is no occasion for taking off the pen in the writing of any word, except for the sake of some advantageous contraction.

Enough has been said to shew how natural, short, simple, rational and convenient the alphabet itself is. But after this is adjusted

to the best advantage possible, yet still it must be owned that some words and syllables will need to be contracted. We therefore could not but judge it of the first importance, that such words as, on account of the idiom of the English, occur in almost every line and sentence, should be characterized by the very shortest marks. And should this method of short-hand be applied to other languages, similar contractions ought to be used, adapted to the idiom of such languages.

We have determined, for this purpose, to make the best use possible of the DOTS and PERPENDICULAR STROKES; two characters which are written with the utmost expedition, as well as take up the least room. This we have done, without paying such a scrupulous regard to their alphabetical significations, as we have in all other cases.

The DOT against the top we have put for the long I, which is a diphthong; and for the preposition IN. The dot against the bottom for AND, whether as a conjunction or a part of a word. The dot against the middle for the termination LY: and the dot over the top of a character for the terminations

tions IFY, TION, SION, ATION, and ITION; two dots put over are made to signify IFICATION, all which occur with the greatest frequency in the English language: whilst the dot placed underneath a character, is used to indicate a DEFICIENCY in that word under which it is put: and an HORIZONTAL LINE underneath, denotes EMPHASIS OR REPE-
TITION.

We have put the short PERPENDICULAR STROKE, above the line of writing, to express the article A or AN; the same placed upon the line, signifies OF; and the same a little lengthened, stands for the article THE.

The termination COVER, is marked by putting a short K over a character; and the termination ITY, by putting a short T over.

We have thus provided for the words and syllables which most frequently occur. Those in the NEXT DEGREE of frequency, are each of them marked by a SINGLE LETTER of the alphabet standing alone; and that letter is the first consonant of the word thereby denoted, as B for BE, BEEN, BY; D for DID, DIDST, &c. excepting the large O for HOW, and X for CHRIST. And as the short T is
the

the most simple of them all, we have made it, standing on the line of writing, to signify TO, UNTO; above the line, to mean IT; and over the top of a character ITY: two T' written close by each other, signify ET CETERA.

Our next care was, to provide an expression for the most usual COMPOUND SOUNDS, in a brief and analogical manner. Wherefore, besides the lengthening of the straight lines, to signify an aspiration, as CH, SH, and TH; we have also enlarged the semicircles, to denote the liquids they stand for, with a d annexed; as LD, MD, ND, and RD. As the x, or ks, is a line across; so the KT, or CT, is expressed by a short line full against the end.

The A, with a curvature forward at the top, we put for ABLE, and IBLE, being very near to the mark for AL. The M is lengthened to signify D'M. The R is lengthened to signify WR. The w, with a short line pointing inwards, signifies WITHIN; and a dot in the middle of it, means WORLD. For the sake of conveniency, j and g, after an ascending, or horizontal line, are written in the
same

same manner: this liberty may be taken, without occasioning any confusion, since we know, that in English, the letter **G** stands for the soft sound of **J**, as in **GENESIS**; as well as the hard sound of **G**, as in **GIVE**. For the sake of brevity, and to preserve the writing the more lineal, the letters **D**, **P**, and **T**, are turned up parallel to themselves, to signify a repetition of the same, with a vowel between. The **ND**, or **END**, when turned back in the direction of **ING**, is **ENDING**: and the **D**, with **MON** struck upward, is made to signify **DEMONSTRATE**, **DEMONSTRATION**.

All the rest of the contractions are regularly made from the letters of the alphabet, by joining together such two or more of them, as were found sufficient, to distinguish what they respectively signify from any other word, e. g. **ANS**, for **ANSWER**; **BO** for **BOTH**, &c. We have carefully examined all the common words in the English, particularly the undeclined ones, to see which of them stood in need of any abbreviation: and have comprised the alphabet itself, with all the abbreviations we found necessary, in the compass of one plate. And although there are sometimes more
significations

significations than one, applied to the same character; yet special care is taken, not to create any confusion, or occasion any mistake thereby.

In this scheme of SHORT-HAND, we have avoided the use of any thick strokes; and have no treble lengths or sizes, except in the case of the circle, which will easily admit it; by this means, the writing is the more distinct and legible. The vowels also being expressed by characters regularly joined, and no places for contractions used, but such as are out of the line of writing; it therefore follows, that the words may be written as small, and as near to each other as you please, without the least danger of confusion.

As there is sometimes an occasion for figures and stops in short-hand, a plate is annexed for that purpose.

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Alphabet &c.		Letters enlarged.	Shortening Rules.
a	-ai - ay		
b	be, ben, by		
d	did - se		d at the end of a word may be struck upward e.g. led v see
e	ee & i short		e or t put over a Character is - ity e.g. i pity o witty
f	ph - ful from		f after an ascending line is made by the length of the e.g. af let v
g	god		g after an ascending, or horizontal line is made by the length of the e.g. ag eg
h	he, his		
i	in, eye, in		i and the preposition in is a Dot against the top e.g. I did v in -y Termination is a Dot against the middle e.g. clearly v strately
j	-dge Jesus		
k	ck-kind could - se	ch - teh which	et - kt is a short line made full against the end e.g. direct v affect k put over a Character is - cover e.g. I recover
l	Lord, will - se	ld - held would - se	
m	him, am	- md - made - se	
n	on, upon	nd - end end	
o	oa ob o - ou how		o made small is ou - sw; made large is ou or e.g. - fore o fore o - ou turned round the end of a Character is - and - and e.g. to bond to bond
p	thee thee thee a an		
qu	question		
r	are, art, her	rd - ward word	r after / / / / / / / / is struck upwards thus f be / de / fr / ge / j r / k r / e r / k m r / ch r / l r / m r / p r / t r / th r / v r when a short Vowel comes between, a short line is drawn from y middle thus f be / de
f	is, us	th - ith shall - t	An Emphatical word, or the Repetition of a word or Sentence, is expressed by an horizontal line put underneath e.g. o ob, ob, ob,
t	te, unto, it	th - eth	eth when it expresses the third person singular of the English Verb, may be changed into S e.g. comes for cometh & brings, for bringeth &c.
u	-eu - ew		u maybe written in any direction e.g. pu tu - su du
v	have		
w	wh - with		
x	- ks Christ		x and ks are expressed by a short line drawn across the preceding or succeeding Character e.g. xpel & extol & breaks & vix &c.
y	ye, you		
z	as, has - t		

Parts of Words.

Undeclined Words &c.

ad- about Ad- add- head- st- al- able- ible- ant- a- e- i- as-

bene- be-neath C ban- ben- being

ded- det- dead, debt D- d- th Death der- dure de- div- e

ed- head Head e- l- ef- eat- case

for- e

ing- ing thing ink think ge- give give- s- n govern- govern- ment

tion- ation- ution is a Dot put over e.g. Epurify & Notion & Nation- ution by 2 Dots e.g. & Qualification
and- and is a Dot against the bottom e.g. & command- & stander- & and then.

The Dot put underneath shows the word to be abbreviated e.g. & Extraordinarity
Two Dots put against the foot horizontally denote the omission of two or more words.

-ject object

can- ken- con- can- st Y contr- a- i- o contrary > com- e come

lk- like & -lm

dm- dom- 3 mem- ber. Member & men- t- Men & -mental & multi- multiply

nding ending Ana- nay & ne- ny any & ness necessary & -ence- hence & -ngth & -inter- intro

od- hood & oi- oy & old- hold Old, hold & -om- whom whom

po- d- vo- & -voi- & -pnt- point Point

war- wor- where & -ra & -re- ry & -rk & -rch- arch & -rn & -retro- rather

were- t, where

sa- say & se- live- ceive & self- selves & super- subter- & circum- = se- = se- = se-

z satis- as it is & lov- spever & cer- fur- & scribe- scrip- & scripture = -tience = -tious

te- tive to the & there there their & tran- t- transgress & tet- tate- ted that & -teth- th'd

uo

ved & -vel- vol- veal & -volve- volution & -van- ven- Heaven

vo- who- who

extra- extravagan- t- ce

-tient- tiate

ago, again- st & acknowledge & according- to & alone & answer & after- ward- s & hath

before & beyond & both & besides & between, betwixt & above & because

difficult- y & differ- ent- ence & down, down & do- co- th & demonstrat- o- ion

if & immediat- e- ly & in- even & hereby & herein & hence & evident- t- ce

for & frequent- ly

gave & godly & Gods & glory- s- et- c- ous & good- n- s & great

Jesus Christ

Church, Birth & Children & concern- ing & consequen- t- ce

little & Lords & likewise

may- st & Man & more & M^r & might- st

another & notwithstanding & nevertheless

often- times & always & also & one, own & understand- ing & only & otherwise

of the & people & particular- ly & peculiar- ly

whereby & wherein & whereof & whereto & wherewithal

Religion, religious & how & Righteous- n- s

should- st & sufficient- ly & signify- cation & save- iour & Sovereign- ty

some & sometime- s & somewhat & Subject- ion & especial- ly

together & them & then, than & thank & therefore & through- out

this & these & thus & those & so.

over- y & very- ly & everlasting- ly

within & without & World- ly & Worlds

Christian & accept- ed- eth

your & yours & yesterday

Observations on the preceeding Plate

I. Column contains the letters of the Alphabet in their usual order, against which are some words of the most frequent occurrence, which these letters signify when written alone or disjointly. That the Learner may know how to write the Characters we here put a dot to shew from what part they are begun. / a^r b^d d^e / e^r f^r g^r h^r i^r j^r k^r l^r m^r n^r i^r p^r q^r r^r s^r t^r v^r w^r y^r z^r

The i is the Dot itself put above the line of writing. The circular Characters may be turned any way. The X w^r is expressed by a line across may be written in any direction, & where it is convenient, the succeeding Character may cross the preceeding. e. g. & flexible Vixen &c. The a & e being struck upward have the following Character joined to the top e. g. f al res; while the t & th being struck downward have the next Character joined to the bottom e. g. L t s t th l. The h and y also are begun from the bottom. The w & wh begining a word, have the next Character joined to the top e. g. & we o wben qu bat &c. The Characters for the Words Jin. aan. Ill. Im. it. are to be written higher than those for and the. of. willt. Lord. bim. am to. unto. as may be seen in the Plate.

II. Column contains several of the letters of the Alphabet enlarged. The three straight lines for t f & k made longer, uniformly intimate the Aspiration of the h after them th, sh, ch. The four semicircles, for the Liquids l m n r, when enlarged, always suppose the d after them ld, md, nd, rd.

III. Column contains several Rules for shortening words, either by writing the Characters disjointly, or by drawing a short line across, or full against the end, or from the middle of the preceeding Characters. When i, ify, tion, ation, ition or and come in



VII

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the middle of a word the Dot may be omitted & the next Character put in its place e.g. *silent* ~ sign ~ Nations ~ National ~ Notions & pacifying & qualifications ~ Commandment. When *i* begins or ends a word the Dot must be written e.g. *Irony* & die. In like manner when *in* begins a word the Dot must be written, but in the middle & end it is expressed by the Letter *n* e.g. *intent* ~ *sin* ~ *since* &c. When it is convenient the Stroke full against the end for *et* ~ *kt* may be omitted & the next Character put in its place e.g. *Director* & Character ~ Sector &c. But when *ks* or *kt* follow a Circular Vowel they will be more easily expressed by the Natural Character e.g. *Books* ~ *talks* & *Structure* &c. The Rule for expressing *v* with a Short Vowel before it by a Stroke from the middle of a preceding line, may be extended to ascending & Horizontal lines as well as to descending ones e.g. *Mayor* ~ *Tenor* ~ *Sharp*.

IV.th Column contains Characters for parts of Words formed from those in the three preceding Columns. The *m* made long is *d m = dom*. The *r* made long is *war-wor-where were, where*. The *t* turned up Parallel to itself is made to intimate a repetition thereof with a Short Vowel between: & so is the *d*. To avoid obtuse Angles, the following combined Letters are written thus. *P ad a ed P am sem al el du gn jn*,
km kn na ne ra re fa fe tu Also the Semicircles may be most concisely & conveniently joined in this manner *2 mr 5 rm ~ ln ~ nl 3 lm 6 rn*.

V.th Column contains several of the particles of Speech viz. Pronouns, Adverbs, Conjunctions & Prepositions; together with some other words that frequently occur, which are contracted by

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writing so many Letters in each, as sufficiently distinguish it from all others.

In each of these 5 Columns, what are Engraven in Running-hand are whole words, & stand as significations to their respective Characters, when written alone; and what are in Roman Letters, are expressive of parts of Words only.

The method of Writing according to the Orthography of Short-hand.

No more letters are to be written in a Word than are just necessary to give the sound thereof. There are in every word a kind of radical letters which when written, do as sufficiently distinguish it, as tho' every Letter was inserted. These for the most part are Consonants, & in Short hand, every double Consonant should be written single; as l, m, n, s, t &c. for ll, mm, nn, ss, tt &c. The Vowels, in general, are frequently of no farther use than to facilitate the pronounciation, by means of their intervention: And therefore in the middle of words may often be omitted with safety. The letter h may commonly be omitted: Yet in the names of Persons or Places &c. it had better be inserted. In short, this method of Writing requires that the proper power of each letter be always retained; & such letters only, expressed in a word, as are just necessary to give the sound thereof. Take the following instances for illustration.

Active is expressed by Aktv thus A	Horizon is expressed by Orizn thus E
Ale Al A	Night Nit I
Anarchy Anrke V	Olympick Olmph 2
Bright Brit F	Potent Potnt 4
Cypher Sifr 2	Sought Saut 7
Carriagw Kreg 4	Usurp Usrp 9
Fell Fl h	Excellent Xlnt 2
Fall Faul d	Yellow Ylo C

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[Partial view of handwritten text from the adjacent page on the right.]

From this short Specimen, it is easy to judge of the Orthography of Short-hand, When the proper Power of each letter is once known & fixed in the Memory, a habit of Writing from Sound only, will be attained with little or no difficulty. This method of Leaving out the Short Vowels will be no disadvantage, for in the reading you can readily supply them: But it will have this advantage, that whenever any Vowel is written in the middle or at the end of a Word, you will then understand that it means a long or accented Vowel.

The Dieresis: or the Method of expressing two or more Vowels when they meet in the same Word, but belong to different Syllables,

This Rule which is seldom required to be used, may be comprized in the three following observations.

- I.st Where both the Vowels are rectilinear, let the latter be made parallel to the former e.g. *Laisb* & *create* & *mea* &c.
- II.^d Where one Vowel is Circular & the other Rectilinear, let the Circular one be turned forward e.g. *poem* & *suero*
- III.^d Where both Vowels are Circular, begin the first from the top & let the other be turned round over it e.g. *duo* & *suo* & *tuo* &c.

The manner of Contracting long Words & Sentences.

In y such long Word or Name &c. as must necessarily very often occur, in the taking down of any Speech, Sermon, Tryal, Lecture &c. having been once Written at length may

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be shortened, by writing so many Letters only as are just necessary to distinguish it, & then pulling a Dot underneath to point out the abbreviation e. g. *Contradiſtinction* & *transubſtantiation* &c. ſee ſhortening Rule Plate 5. againſt the Letter *i*.

In like manner any particular Phraſe, which from the nature of the Subject will require to be often repeated, ſuch Sentence or Phraſe having been once written at length may be abbreviated by placing two Dots againſt the foot of the preceding or ſucceeding Character in an horizontal direction, to denote the omiſſion e. g.

~ 0.. laſt Will and Teſtament. or .. 3 laſt Will and Teſtament.

Finally Brethren whatſoever things are true, whatſoever things are honeſt, whatſoever things are juſt, whatſoever things are ſure, whatſoever things are lovely, whatſoever things are of good report: if there be any virtue & if there be any praiſe, think on theſe things. Phil. 4. 8. See ſhortening rule Pla 5. againſt the letter *i*.

The Method of Joining Several Words together.

Any two or more words coming together in the ſame Sentence & having their ſounds fully expreſſed by Characters, may be joined together without much danger of confuſion, But this practice, which is better calculated to deceive the Eye by a ſpecious appearance of Brevity, than to compaſs any real advantage in the Art itſelf, we can by no means recommend not only becauſe it is an Enemy to beauty but alſo to expedition, tires the hand & burthens the memory.

X

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O
She
to a
fol

In
are,
Con
A

Figures

Number is already express'd by Characters sufficiently short & distinct every Unit under Ten having a different sign to denote them by yet in Cases where Secrecy is required the following set may be made use of.

1	2	3	4	5	6	7	8	9	0.
/		-	\	u	c	o	n	o	o

Example.

to 110. 6 100. n 188. h 299. 3 377. ~

\ 212. = 33. n 11.

/ \ " (")

) (o . - " |

o . - " o . o

£ 124. 6. 7

769. 3. 2

£ 893. 9. 9.

Stops

In Short hand writing Stops are seldom necessary; but when they are, the following are the most convenient.

Comma ; Semicolon : Colon \ Period . Question, or Note of Admiration.

\ A fresh Paragraph ^ Caret () Parenthesis " Quotation "

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If the reader has understood and well digested what he has now read, the necessity of any further instruction is almost precluded: yet the following advice may not be useless.

The alphabet should be familiarized in the first place: it may be seen from what general figure the letters are formed, by recurring to plate II. and where each letter begins by reading plate VI.

Let him next take notice of the uses of the alphabet, and enlarged letters, contained in the first and second columns of plate V.

In the next place it may be proper for him to write a page out of some book, agreeable to what he has learned in those columns; expressing each sounding letter distinctly, only taking care not to make two distinct marks for any combined letters, which, in those columns, he finds expressed by one mark.

Having done this, he may proceed to make himself acquainted with the general rules of contractions, and the abbreviations contained in the other columns. This may be easily done, by observing how the alphabetical order is retained in each line of plate V. which

contains all the characters used in this system; and by reading the further explications in the succeeding plates.

This being effected, he may now attempt, with care, to write out of the Bible any of those sentences that are contained in the following specimen, afterwards comparing what he has wrote with the specimen.

It should be carefully observed, that every letter in the same word must begin exactly where the former letter ends, without taking off the pen; unless otherwise directed.

When the learner has by these means obtained an habit of writing tolerably correct, let him embrace every opportunity of practising; only taking care never to lay by what he has written, without perusing it again and again, till he can read it with ease and freedom.

In writing after a speaker; whenever any phrase or quotation occurs, that he can either easily remember or afterwards refer to, he need write no more than what is just necessary to refresh his memory, or direct him to the place from whence it was quoted; denoting the chasm by two dots placed horizontally,

ly, or by two *r*' placed near together, signifying *et cetera*.

If he has occasion to write any words or sentences in the Hebrew or Greek languages, he may find the characters that answer to the letters of either alphabet in the paradigm, plate I. He may also adopt and apply to either of these languages, the enlarged semi-circles to signify the same compound sounds as they do in the English.

The rules for the attaining to an easy and expeditious manner of writing short-hand, are chiefly such as are applicable to the common long-hand.

Let the pressure of the fingers upon the pen, the hand upon the paper, and the arm upon the table or desk, &c. be as little as possible; while the motion of the pen must be made by the fingers, and not by the whole hand: otherwise in long and continued writing the hand will be tired, and its progress greatly retarded. But this rule is more especially applicable to short-hand, in which the ascending and descending strokes should be made of an equal thickness or breadth.

Let him lay his paper or book straight before him, and not sloping: by this means the characters will appear more beautiful, and, what is still more material, will be formed with greater exactness.

Let there be no stoppage of the hand in taking off the pen to begin a fresh word or character.

By a due observation of these three rules, an habit of writing with great expedition may soon be attained.

To complete the whole, and to prepare himself for writing in public, let him get some person to read to him every day for about half an hour, giving proper notice when to read slower and when quicker. Thus, each day, he will perceive what advances he has made. It will be best for him to proceed in this manner, till he is so ready at writing, as to be capable of expressing the characters in the same time that the words themselves can be distinctly pronounced. SCRIBENDO DISCES SCRIBERE.

Here it may be necessary to observe, that when it is required, the characters may be written much smaller, and closer to each other,

other, than what they are in the following specimen ; where we have purposely made them large, that they may appear the more distinct : otherwise fewer plates by one third would have been sufficient to have contained the same things.

NATURAL SHORT-HAND.

other than what they are in the following
specimens; where we have purposely made
them large, that they may appear the more
distinct: otherwise fewer plates by one third
would have been sufficient to have contained
the same things.

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1940

The first thing I noticed when I stepped
 out of the car was the cold. It was a
 sharp, biting cold that seemed to seep
 into my bones. I shivered as I walked
 towards the entrance of the building.
 The door was open, and a warm glow
 emanated from within. I hesitated for
 a moment, then pushed the door open
 and stepped inside. The warmth was
 comforting, but I noticed a few
 people looking at me. I felt a bit
 out of place. I walked towards the
 reception desk, where a woman
 smiled at me. She asked me what
 I was looking for. I told her I was
 looking for Mr. Smith. She led me
 to his office. I knocked on the door
 and entered. Mr. Smith was sitting
 at his desk, looking up at me.
 He asked me how I was. I told
 him I was well. He then asked me
 about my work. I told him about
 my current project. He listened
 intently and then gave me some
 advice. I thanked him and left
 his office. I walked back to the
 reception desk and said goodbye
 to the woman. I then walked
 out of the building. The cold was
 still there, but I felt a bit better.
 I walked home, thinking about
 my meeting with Mr. Smith.

To introduce the learner into the following specimen, we here give him at length the contents of the first plate.

“ AN ATTEMPT TO EXPLAIN AND DEMON-
 “ STRATE THE MECHANICAL PRINCIPLES
 “ OF NATURAL PHILOSOPHY.

“ Various attempts have been made in
 “ every age, to account for the grand pheno-
 “ mena of nature, to the satisfaction of the
 “ rational mind.

“ The ancient philosophers had recourse
 “ to substantial forms and occult qualities :
 “ while the moderns have been very ingeni-
 “ ously employed in making curious enter-
 “ taining experiments, and have learnedly
 “ appealed to mathematical demonstration ;
 “ explaining and evincing the nature and
 “ properties of centripetal and centrifugal
 “ forces, thereby to investigate the laws of
 “ nature, and the secrets of its operation.
 “ The result of which is, that they have ob-
 “ tained a notion of various kinds of attrac-
 “ tion and repulsion ; the laws and proper-
 “ ties of which they can give a very accurate
 “ account of in the mathematical way. But
 “ after

64 NATURAL SHORT-HAND.

“ after all their demonstrations, they have
“ not been able to assign the cause ; or de-
“ scribe the nature and operations of these
“ attractive and repulsive powers, in a me-
“ chanical way, by all their learned diagrams
“ and calculations. For this reason, these
“ powers ought still to be considered, in this
“ respect, as on a level with the occult or
“ hidden qualities of the ancients. For it is
“ evident, that in natural philosophy, where
“ mechanism ends demonstration ceases ; and
“ must be supplied by meer supposition, or
“ by the use of terms and phrases, under
“ which we can form no regular idea. What
“ is then still wanting, after all that has hi-
“ therto been investigated is, to shew the
“ nature and cause of these qualities or pow-
“ ers ; and thence to demonstrate, in a way
“ of mechanical reasoning, what is, and must
“ necessarily be the manner of their opera-
“ tion. This is what is aimed at in the suc-
“ ceeding pages, on the simplest and most
“ natural principles, without disparaging ei-
“ ther the mathematical demonstrations, or
“ curious experiments of modern philoso-
“ phers.

“ The

“ The whole of the following demonstra-
 “ tion is grounded on one definition and one
 “ axiom, applied to a few indubitable and
 “ well known matters of fact.

“ The definition is this : matter is an ex-
 “ tended, solid, inactive and moveable sub-
 “ stance. The axiom is this : NIHIL AGIT
 “ IN DISTANS ; nothing acts but where it
 “ exists. The indubitable matters of fact
 “ will be mentioned as occasion requires.

“ The propriety of the above definition of
 “ matter, will scarcely admit of a dispute ;
 “ for every one of these properties will ap-
 “ pear to be essential to it, by only a naked
 “ conception of it : for let a quantity or a-
 “ tom of matter be supposed to stand by it-
 “ self, without any thing contiguous or an-
 “ nexed, and we shall then be obliged to con-
 “ ceive, that this matter is (1.) Extended, or
 “ has the three dimensions belonging to it ;
 “ for never a one of the three dimensions
 “ can totally be taken from it, without de-
 “ stroying its very existence. (2.) This a-
 “ tom, or quantity of matter, is solid to such
 “ a degree, or in such a complete sense, that
 “ it absolutely occupies the space it exists in ;

“ and cannot admit any other quantity of
 “ matter to occupy that space, or any part of
 “ it, at the same instant of time. For, al-
 “ though most bodies are porous, and have
 “ room for matter to be introduced into those
 “ cavities ; yet the matter itself of which the
 “ body is composed, can have no pore in it.
 “ (3.) This atom, or quantity of matter, is
 “ in itself inactive ; it cannot act on itself,
 “ nor of itself act on any thing else, being in
 “ its own nature dead and insensible : and
 “ yet, (4.) This atom, or quantity of matter,
 “ is moveable, or capable of being moved by
 “ any external force put upon it ; for, if it
 “ is supposed to stand by itself, it can have
 “ nothing attending it to hinder its motion
 “ any way if impelled, and it surely has no-
 “ thing in its nature to fix it to that part of
 “ space it is supposed to be now in.

“ The axiom, that NIHIL AGIT IN DIS-
 “ TANS ; or nothing can act but where it
 “ exists, is self-evident only with this distinc-
 “ tion ; matter may indeed act on a thing at
 “ a distance from it, suppose there be some
 “ proper medium or instrument through and
 “ by which it may thus act. Now this me-
 “ dium,

“ dium, by which matter sometimes acts at
 “ a distance, must either be material or spi-
 “ ritual. If material, then one atom of
 “ matter acts on the next in contact succes-
 “ sively. If it be spiritual, then the matter
 “ must be supposed to act on this spiritual
 “ medium, in a way quite inconceivable to
 “ us, and perhaps the conception itself is too
 “ gross to be admitted: but if there be no
 “ such medium, then a quantity of matter
 “ cannot act any farther than the surface of
 “ its own dimensions; so that the axiom may
 “ be expressed more accurately thus, NIHIL
 “ AGIT IN DISTANS, SINE MEDIO; OR NO-
 “ thing can act on what is at a distance from
 “ itself, without some fit and proper medium
 “ intervening.

“ On this definition and this axiom all
 “ proper mechanism is founded. For unless
 “ there be extension, solidity, inactivity and
 “ mobility in matter, there is no room for
 “ mechanism; and if any more properties be
 “ introduced, they must be more than me-
 “ chanical, and so cannot come under the
 “ laws of mechanism.

“ From the extension of matter, we learn,
“ that every quantity of matter, great or
“ small, must have some shape and size.

“ From the solidity of matter, we learn,
“ that no two atoms of matter can exist in
“ the same place, precisely in the same in-
“ stant, or that every quantity of matter
“ excludes all other matter from the space
“ itself at present occupies; for if the parts
“ of matter could penetrate each others di-
“ mensions, one part of matter could make
“ no impression on any other part, even by
“ contact itself: or perhaps it may be better
“ expressed thus; there would be no contact
“ at all, if matter were not thus impenetra-
“ ble.

“ From its natural inactivity, connected
“ with the above axiom, we learn, that mat-
“ ter cannot move itself; that it cannot in
“ itself have any tendency to move more one
“ way than another; that every quantity of
“ matter any way in motion is a patient, or
“ is acted upon; that matter cannot act any
“ farther than the surface of its own body
“ extends, since an absolute vacuum can nei-
“ ther produce, nor prevent, nor convey mo-
“ tion;

“ tion ; that it cannot magnify or diminish
 “ its own dimensions ; that it cannot alter
 “ its own shape or figure ; that it cannot
 “ draw any other body to itself, or drive any
 “ other body from itself, to any distance.
 “ And though there are some appearances in
 “ nature which seem to contradict this posi-
 “ tion, yet these phenomena cannot be ac-
 “ counted for from the pure nature of mat-
 “ ter itself, but the cause, either mechanical
 “ or spiritual, must be sought after.

“ From the mobility of matter, we infer,
 “ that it has no aversion in itself to motion
 “ or rest ; or that it may be at rest or in mo-
 “ tion at different times,” &c.

The learner should neither be surprised nor discouraged if while the art is not yet familiar to him, he should at first meet with some little difficulty in making out the rest ; but he may assure himself, that the pains he takes to read, will much contribute to render both the writing and reading familiar and easy to him : and possibly some ideas he gathers from thence may be found new, entertaining and instructive.

NATURAL SHORT HAND.

"tion; that it cannot express ordinary
"its own dimensions; that it cannot alter
"its own shape or figure; that it cannot
"draw any other body to itself or drive any
"other body from itself to any distance.
"And though there are some appearances in
"nature which seem to contradict this posi-
"tion, yet these phenomena cannot be ac-
"counted for without the positing of some
"term, which is the cause, rather than the
"or identical, must be foreign to it.
"From the reasoning of matter, we infer
"that it has no action in itself or action
"or effect or that it may be moved or changed
"in its distant cause." etc.

The learner should rather be directed to
discovered it while he is in a state of
to him, he should be made with his hands
the difficulty in making out the sign; but he
may learn himself that the sign is to be
and will much contribute to his understanding
the meaning and reading of the signs which
him; and possibly some may be taught to
there may be found new letters and

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The first part of the paper is a list of names of the
 persons who have been members of the Society since
 its formation. The names are arranged in alphabetical
 order, and each name is followed by the date of
 admission. The list is as follows:
 Mr. A. B. C. (1854)
 Mr. D. E. F. (1855)
 Mr. G. H. I. (1856)
 Mr. J. K. L. (1857)
 Mr. M. N. O. (1858)
 Mr. P. Q. R. (1859)
 Mr. S. T. U. (1860)
 Mr. V. W. X. (1861)
 Mr. Y. Z. A. (1862)
 Mr. B. C. D. (1863)
 Mr. E. F. G. (1864)
 Mr. H. I. J. (1865)
 Mr. K. L. M. (1866)
 Mr. N. O. P. (1867)
 Mr. Q. R. S. (1868)
 Mr. T. U. V. (1869)
 Mr. W. X. Y. (1870)
 Mr. Z. A. B. (1871)
 Mr. C. D. E. (1872)
 Mr. F. G. H. (1873)
 Mr. I. J. K. (1874)
 Mr. L. M. N. (1875)
 Mr. O. P. Q. (1876)
 Mr. R. S. T. (1877)
 Mr. U. V. W. (1878)
 Mr. X. Y. Z. (1879)
 Mr. A. B. C. (1880)
 Mr. D. E. F. (1881)
 Mr. G. H. I. (1882)
 Mr. J. K. L. (1883)
 Mr. M. N. O. (1884)
 Mr. P. Q. R. (1885)
 Mr. S. T. U. (1886)
 Mr. V. W. X. (1887)
 Mr. Y. Z. A. (1888)
 Mr. B. C. D. (1889)
 Mr. E. F. G. (1890)
 Mr. H. I. J. (1891)
 Mr. K. L. M. (1892)
 Mr. N. O. P. (1893)
 Mr. Q. R. S. (1894)
 Mr. T. U. V. (1895)
 Mr. W. X. Y. (1896)
 Mr. Z. A. B. (1897)
 Mr. C. D. E. (1898)
 Mr. F. G. H. (1899)
 Mr. I. J. K. (1900)

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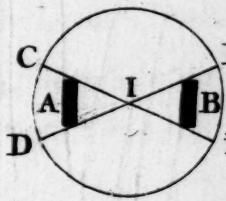
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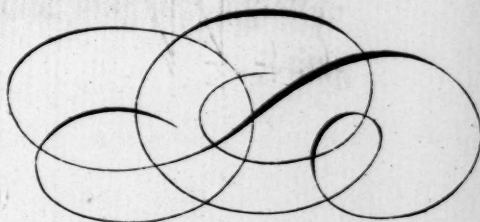
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A N.

A P P E N D I X.

HAVING thus, as we presume, investigated the shortest, most natural and convenient characters for ARTICULATE sounds as expressed in words, we now subjoin what we apprehend would be the most natural, convenient and expeditious character for IN-ARTICULATE sounds, as expressed in music.

For this purpose we have, first, provided distinct marks for the seven letters of the alphabet by which the notes in the gamut, or common scale, are expressed. Secondly, a short and easy method of distinguishing these notes when they stand in different octaves. Thirdly, a ready and concise way of signify-

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ing

ing the different species of notes, or the time required for the sounding of each. And lastly, that these three should be so united in the same character, as to be written with the greatest facility, and yet appear extremely legible. But of these in their order.

First, the seven letters by which the notes are named in the gamut, are signified by their correspondent characters in the short-hand alphabet, with this difference only, that for the A we use the P, which stands for the article A; and the E we strike downwards instead of upwards.

Secondly, as to the manner of distinguishing these seven notes, when they stand in different octaves. The treble and bass being the only cliffs now used, the number of notes required in each may well be included in three distinct octaves. The middle octave, is signified by the short-hand letters themselves, without annexing any other mark for that purpose. The higher octave, is made by drawing a short line against the middle behind

hind each note: the lower octave, by a short line drawn from the middle forwards. To apply the notes in these three octaves to the treble and bass clefs, it is to be carefully observed, that the clef note in the treble is expressed by the character for G in the lower octave; and in the bass by the character for F in the same octave: whenever the notes in the bass descend below A in the lower octave, they may be expressed by drawing two short lines from the middle forward, instead of one.

Thirdly, the method of distinguishing the length or time of sounding each note, is by joining a character to the end: except in the crotchet, which on account of the frequency of its occurrence in all music, has no mark annexed.

The SEMIBREVE is expressed by annexing the short-hand M; the MINIM by N; the QUAVER by A or E; the SEMIQUAVER by S; and the DEMISEMIQUAVER by U. Here it may be proper to remark, that, in the application of these characters, our chief care has

been to apply the shortest and most convenient marks to those notes which are most used. As for instance, the minim and quaver are more frequently used than the semi-breve and semiquaver; therefore the marks for the two former, are such as can be joined to the note with more ease than those for the latter.

Lastly, upon this plan each note, whether high or low, whether longer or shorter, in any degree, is marked by one or two simple lines, and at the most by three. The seven notes are expressed by seven characters of the short-hand alphabet, answerable to the seven letters in the common scale. An octave above or below, is denoted by a short line drawn to or from the middle of those characters; while the length of time required for the sounding of each, is intimated by what is joined to the end of its character. By this means there is no note but what can be written with great expedition; the longest requiring

quiring no more time in the writing than that of the crotchet in the common method.

In this scheme there will be no occasion for CLIFFS: yet to distinguish the parts it will be necessary to put at the beginning of the tune TR for treble, c for contra, T for tenor, and B for bass.

The STATED FLATS OR SHARPS are expressed in this manner: the letters which are flatted or sharped are written at the beginning of the tune in common long-hand; and if they are flat the short-hand *r* is put over them, if sharp the short-hand *s*.

An OCCASIONAL FLAT, natural or sharp, is intimated by the short-hand *r*, *n* or *s* put over the note.

A BAR is denoted by a perpendicular line beginning higher than the notes: a DOUBLE-BAR by two such lines close to each other.

A REST is signified by a small cypher.

A DIMINUTIVE NOTE may be expressed by making it somewhat smaller, and placing it a little higher than the line of writing.

Other

Other occasional marks, such as a TRILL, SLUR, POINT OF ADDITION, HOLD, SWELL, TURN, &c. whenever they are required, may be made in the usual way.

By this method, the true sounds of the notes may be conveyed to the mind, with, at least, as much ease and facility, as if they were described on different lines and spaces. For no just reason can be assigned, why inarticulate sounds should not be expressed by letters substituted for that purpose, as well as articulate ones.

By the usual method of describing the notes upon lines and spaces, there is evidently this disadvantage: the notes which stand in the same lines or spaces, are not the same in different cliffs. This in all music, both vocal and instrumental, has proved a very great source of confusion. Whereas the flat, natural and sharp sound appropriated to each letter being once understood, the number of the letters being few, their distances from each other will soon become familiar. To
any

any person, thus instructed, every part may be performed with the same ease. Any piece of music thus written, may be sung with the utmost readiness: and if we consider, that all musical instruments are especially adapted to the letters, and not to the lines and spaces, it might also by this method be played at sight, with as much facility as we can read a paragraph of a news paper, or a page in any printed book.

Thus the notes, and all their variations, together with such other marks as are commonly used in music, are expressed in a very concise, easy and legible manner. The advantages arising from this method would be very considerable. A person, instead of being obliged to have five lines previously ruled, may take down a tune upon a blank piece of paper in one line, and the words adapted to the tune may, most commodiously, be written underneath in short-hand. This scheme will soon be understood and remembered by any who have learned the short-hand, and are acquainted

acquainted with the gamut or common scale: and when it is once familiarized, any piece of music may be written with great ease and exactness. And indeed a common psalm tune may be taken down in the same time as it is sung; even as any speech, &c. may be taken verbatim by the short-hand, in the same time as it is spoken.

We here then present the public with a plan entirely new, annexing a tune for a specimen; the whole comprehended in one copper-plate.



Fragment of a musical score on the right margin, showing staves with notes and clefs. Visible text includes "Bar" and "B".

*A Short-hand Character for the expressing of
Musical Sounds.*

*The Notes answerable to the
Gamut or common Scale.*

A. B. C. D. E. F. G.

+ + λ γ γ γ λ higher Octave.

1 2 \ 3 / 4 \ middle Octave.

t f v l x t e Lower Octave.

*A Sharp, Flat and Natural by the Short-hand S, T
and N put over e.g. $\bar{A}$ Sharp. $\acute{A}$ Flat. $\grave{A}$ Natural.*

A Rest by a Cypher in the line of Writing e.g. ○

Bars as usual, only made a little higher than the Notes

The Notes according to
their Length or Time of
Sounding. S

Semibreve

⌋ Minim

Crotchet *has no mark*

1. Quaver (*struck upward*)

— Semiquaver

0 Demifemiquaver

Waltz tune Tenor and Bass,

The image shows a musical score for the song "The Rose Tree." It consists of four staves of music, arranged in two pairs. The top pair of staves is for the Tenor (T) and Bass (B) voices, and the bottom pair is for the Tenor (T) and Bass (B) voices. The music is written in C major, 4/4 time, and features a key signature of one sharp (F#). The melody is simple and catchy, with a repeating chorus. The lyrics "The Rose Tree" are written below the staves, and the title "THE ROSE TREE" is printed at the top of the page.

The same in the Short hand Character.

[illegible]

Beolufædæc Hottædæc E. No. 4. Utiædæc Fædæc Alædæc Fædæc

 FINIS 

Handwritten text, likely a letter or document, written in a cursive script. The text is mostly illegible due to fading and ink bleed-through from the reverse side. Some words are faintly visible, such as "I have" and "I am".

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